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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/578,566	05/05/2006	Stefan Martin Benjamin Gachter	290542US2PCT	9064
23650 7550 09/22/2508 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			SCHEUERMANN, DAVID W	
ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
			NOTIFICATION DATE	DELIVERY MODE
			09/22/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Application No. Applicant(s) 10/578,566 GACHTER, STEFAN MARTIN BENJAMIN Office Action Summary Art Unit Fyaminer DAVID W. SCHEUERMANN 2834 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status Responsive to communication(s) filed on 05 May 2006. 2a)□ This action is FINAL. 2b) ☐ This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 5/5/2006 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on ____ is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) None of: Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) Interview Summary (PTO-413) Paper No(s). 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Informal Patent Application (PTO-152)

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5/06.

6) Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Rosen et al., US 5998899. Rosen et al., US 5998899 show:

A power amplifier comprising:

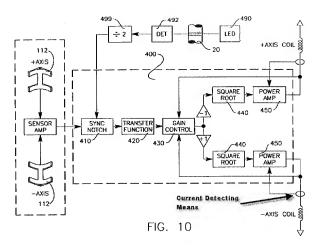
current command means (400, figure 10) for outputting an exciting current command signal based upon a current target value to be supplied to a body to be driven:

a current amplifier 450 that amplifies the current command signal to supply the resulting current to the body to be driven; and

current detecting means (Labeled in figure 10 shown below)for detecting a Current flowing through the body to be driven,

wherein the current command means feeds back a current detection value obtained by the current detecting means so that the exciting current command signal is controlled so as to make the current detection value equal to a current target value (inherent).

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Re claims 2, note electromagnets 110 and 210; rotation body 20 and displacement detecting means112 as shown in figure 2B of Rosen et al., US 5998899.

Re claim 3, note that the sensor amp from sensors 112 and position sensor 492 inputs into the current command means, as shown supra.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rosen et al., US 5998899 in view of Shinozaki, US 2002/00969954 A1. Rosen et al., US 5998899 discloses the invention substantially as claimed as set forth in the rejection of claim 1, supra. Rosen et al., US 5998899 does not expressly disclose:

wherein: the control axis is not horizontal, and the exciting current target value determining means determines the exciting current target value by using only the control current that varies depending on the displacement detection value of the rotating body as an exciting current, with respect to the electromagnet on the lower side, and also determines the exciting current target value by using a current formed by combining a predetermined bias current and the control current that varies dependingonthe displacement detection value of the rotating body as an exciting current, with respect to the electromagnet on the upper side.

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Shinozaki, US 2002/00969954 A1 discloses use of bias control signals in resulting from the addition of bias signals and displacement signals see figure 8, for the inherent purpose of compensating for pre-existing condition such as gravity for example. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use a bias signal and a target valut to determine the exciting current through the levitation apparatus of Rosen et al., US 5998899. One of ordinary skill in the art would have been motivated to do this to compensate for pre-existing conditions. Furthermore, the courts have established via. in re Aller, 105 USPQ 238 (CCPA 1955) that, "...even though applicant's modification results in great improvement and utility over prior art, it may still not be patentable if modification was within capabilities of one skilled in art; more particularly, where general conditions of claim are disclosed in prior art, it is not inventive to discover optimum or workable ranges by routine experimentation. Therefor the value of the bias current whether less than zero, zero or greater than zero would have been determined through routine experimentation and therefore would not patentable define over the art of record.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID W. SCHEUERMANN whose telephone number is (571)272-2035. The examiner can normally be reached on Monday through Friday from 8:00 am to 4:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached at (571) 272-2044. The fax phone numbers for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/D. W. S./ Examiner, Art Unit 2834 September 19, 2008 /Karl I.E. Tamai/ Primary Examiner, Art Unit 2834